NORTHWEST DOTY MOUNTAIN QUADRANGLE PLATE 22 OF 32 **UNITED STATES** WYOMING-CARBON CO. DEPARTMENT OF THE INTERIOR 7.5 MINUTE SERIES (TOPOGRAPHIC) **GEOLOGICAL SURVEY** 107°45′ R.92 W. -SC[3] T.18 N. R(85%) 0.01 RB 0.02 EXPLANATION T.18 N. 3.80 5.01 1.86 NON-FEDERAL COAL LAND - Land for which the 34 34 Federal Government does not own the coal ISOPACH - Showing thickness of coal, in RB 2.61 2.10 feet. Arrow points toward area where coal bed is 5 feet or more thick. 2.21 SC[3] - Separation Creek [3] FU[1] - Fort Union [1] RB 0.07 0.14 0.06 R(50%) 0.03 0.07 0.03 7-sc[3] Inf 0.26 0.13 COAL BED SYMBOLS AND NAMES - Coal beds identified by bracketed numbers are not formally named, but are numbered for 0.00 RB 0.02 — R(85%) 0.01 Inf (Sec. 30) identification purposes in this quadrangle TRACE OF COAL BED OUTCROP - Showing symbol of name of coal bed as listed above. Arrow R(85%) 0.29 0.99 0.40 0.59 1.99 0.80 0.08 0.06 points toward coal-bearing area. Dashed where inferred; short dashed where inferred by present authors. STRIPPING-LIMIT LINE - Boundary for surface mining (in this quadrangle, the 200-footoverburden isopach). Arrow points toward
the area suitable for surface mining where
the recovery factor is 85 percent, and away
from the area suitable for subsurface mining (down dip to the 3,000-foot-overburden
isopach) where the recovery factor is 50 SC[3] isopach) where the recovery factor is 50 percent. 10 10 12 R(85%) 0.59 0.29 (Measured) 1.99 0.99 (Indicated) 0.80 0.40 (Inferred) 0.01 27'30" IDENTIFIED COAL RESOURCES - Showing totals 7'30" --for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part of section of non-leased Federal coal land, both within and beyond the stripping-limit line. Reserve (R) tonnage is calculated by multiplying the Reserve Base (RB) tonnage by the appropriate recovery to the stripping tonnage by the appropriate recovery. tonnage by the appropriate recovery factor. Dash indicates no resource in that category. Underground Reserves have been calculated for only that part of the Reserve Base that is suitable for underground mining, and do not include Reserves for areas where the dip of the coal bed exceeds 15°. 0.00 18 0.10 0.08 Also, Reserves have been calculated for a constant thickness of 12 feet for areas 14 where the coal beds are more than 12 feet thick. Therefore, in some instances, underground Reserves may be less than 50 percent of the Reserve Base. NOTE: Dips in these areas exceed 15 20 22 22 3/4-mile radius resources 0.00 0.04 0.05 Indicated resources (I) 30 Inferred 34 34 33 32 resources (Inf) 0.00 0.15 0.12 BOUNDARY LINES - Enclosing areas of measured 0.28 (M), indicated (I), and inferred (Inf) coal resources. Dashed where projected from 0.05 0.42 0.00 0.17 0.14 adjacent quadrangles. To convert short tons to metric tons, Area distribution and identified multiply short tons by 0.9072. resources map of the Almond [8] To convert feet to meters, multiply feet by 0.3048. T.16 N. T.16 N. To convert miles to kilometers, multiply miles by 1.6093. 107°45' R.92 W. 42'30" R.91 W. 107°37'30" Base from U.S. Geological Survey, 1957 SCALE 1:24 000 Compiled in 1979 6000 1 KILOMETER This report has not been edited for conformity with U.S. Geological WYOMING Survey editorial standards or stratigraphic nomenclature.

COAL RESOURCE OCCURRENCE MAP OF THE NORTHWEST QUARTER OF THE DOTY MOUNTAIN 15-MINUTE QUADRANGLE, CARBON COUNTY, WYOMING

APPROXIMATE MEAN DECLINATION, 1957 QUADRANGLE LOCATION

PLATE 22

AREAL DISTRIBUTION AND IDENTIFIED RESOURCES MAPS OF THE ALMOND [8], FORT UNION [1], AND SEPARATION CREEK [3] COAL BEDS